

AMENDMENTS TO THE CLAIMS

1-2. (Cancelled)

3. (Currently Amended) A subscriber wireless access system equipped with customer stations which are wirelessly connected to base stations and for accommodating communication terminal devices in the customer stations, ~~the said~~ subscriber wireless access system comprising:

at least one exchange for connecting the base stations with a virtual dedicated line network ~~for enabling so as to enable~~ customer stations which are wirelessly connected to different base stations to be interconnected via a virtual dedicated line network;

wherein said at least one ~~the exchange including includes:~~

a table for correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations;

means ~~responsive to receipt of~~ for receiving data from a customer station via a subordinate base station ~~for and~~, with reference to ~~the said~~ table, sending the received data through the virtual dedicated line network to another base station; and

means ~~responsive to receipt of~~ for receiving data through the virtual dedicated line network, and, ~~for~~, with reference to ~~the said~~ table, converting the received data to customer station identification information of a customer station and sending the converted data to a subordinate base station;

wherein each customer station ~~being is~~ assigned station-specific identification information for identifying the individual customer station and group identification information for identifying ~~it the individual customer station~~ as a member of a customer station group, and each customer station group is assigned unique group identification information; and

wherein each base station ~~having tables has~~ a first table for correlating the virtual dedicated line network connection information with the group identification information

of each customer station group and a second table for correlating the station-specific identifier information and the group identification information of each customer station group, and said first and second tables of each of the base stations contain ~~containing~~ the same group identification information for customer stations belonging to the same customer station group.

4. (Currently Amended) A subscriber wireless access system equipped with customer stations which are wirelessly connected to base stations and for accommodating communication terminal devices in the customer stations, ~~the said~~ subscriber wireless access system comprising:

exchanges for connecting the base stations with a virtual dedicated line network ~~for enabling so as to enable~~ customer stations which are wirelessly connected to different base stations to be interconnected via a virtual dedicated line network;

wherein each of said exchanges including includes:

a table for correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations;

means ~~responsive to receipt of~~ for receiving data from a customer station via a subordinate base station, and ~~for~~, with reference to the table, sending the received data through the virtual dedicated line network to another base station; and

means ~~responsive to receipt of~~ for receiving data through the virtual dedicated line network, and ~~for~~, with reference to the table, converting the received data to customer station identification information of a customer station and sending the converted data to a subordinate base station;

wherein an exchange being is provided in every each of the base stations;

wherein said table the tables of the each of said exchanges containing contains identical virtual dedicated line network connection information for the customer stations connected through the virtual dedicated line network;

wherein each customer station being is assigned station-specific identification information for identifying the individual customer station and group identification

information for identifying ~~it~~ the individual customer station as a member of a customer station group, and each customer station group is assigned unique group identification information; and

wherein each base station ~~having tables~~ has a first table for correlating the virtual dedicated line network connection information with the group identification information of each customer station group and a second table for correlating the station-specific identifier information and the group identification information of each customer station group, and said first and second tables of each of the base stations contain ~~containing~~ the same group identification information for customer stations belonging to the same customer station group.

5. (Currently Amended) A subscriber wireless access system equipped with customer stations which are wirelessly connected to base stations and for accommodating communication terminal devices in the customer stations, ~~the said~~ subscriber wireless access system comprising:

at least one exchange for connecting the base stations with a virtual dedicated line network ~~for enabling so as to enable~~ customer stations which are wirelessly connected to different base stations to be interconnected via a virtual dedicated line network;

~~the~~ wherein said at least one exchange ~~including~~ includes:

a table for correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations;

means ~~responsive to receipt of~~ for receiving data from a customer station via a subordinate base station, and ~~for,~~ with reference to ~~the said~~ table, sending the received data through the virtual dedicated line network to another base station; and

means ~~responsive to receipt of~~ for receiving data through the virtual dedicated line network, and ~~for,~~ with reference to ~~the said~~ table, converting the

received data to customer station identification information of a customer station and sending the converted data to a subordinate base station,

wherein each customer station ~~being~~ is assigned station-specific identification information for identifying the individual customer station and group identification information for identifying ~~it~~ the individual customer station as a member of a customer station group, and each customer station group is assigned unique group identification information; and

wherein each base station ~~having tables~~ has a first table for correlating the virtual dedicated line network connection information with the group identification information of each customer station group and a second table for correlating the station-specific identifier information and the group identification information of each customer station group, and said first and second tables of each of the base stations contain ~~containing~~ the same group identification information for customer stations belonging to the same customer station group; and

wherein said first and second ~~the~~ tables of each of the base stations ~~being~~ are management information bases and, by utilizing a simple network management protocol system, the group identification information ~~being~~ is written to the management information bases by using information sent from a management unit connected via the virtual dedicated line network.

6. (Currently Amended) A subscriber wireless access system equipped with customer stations which are wirelessly connected to base stations and for accommodating communication terminal devices in the customer stations, ~~the said~~ subscriber wireless access system comprising:

exchanges for connecting the base stations with a virtual dedicated line network ~~for enabling~~ so as to enable customer stations which are wirelessly connected to different base stations to be interconnected via a virtual dedicated line network₅;

wherein each of said exchanges ~~including~~ include:

a table for correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations;

means ~~responsive to receipt of~~ for receiving data from a customer station via a subordinate base station, and, for, with reference to the table, sending the received data through the virtual dedicated line network to another base station; and

means ~~responsive to receipt of~~ for receiving data through the virtual dedicated line network, and, for, with reference to the table, converting the received data to customer station identification information of a customer station and sending the converted data to a subordinate base station, wherein an at least one of said exchanges being is provided in every each of the base stations;

~~the tables wherein said table of each of said of the exchanges containing contains~~ identical virtual dedicated line network connection information for the customer stations connected through the virtual dedicated line network;

wherein each customer station being is assigned station-specific identification information for identifying the individual customer station and group identification information for identifying it the individual customer station as a member of a customer station group, and each customer station group is assigned unique group identification information;

wherein each base station having tables has a first table for correlating the virtual dedicated line network connection information with the group identification information of each customer station group and a second table for correlating the station-specific identifier information and the group identification information of each customer station group, and said first and second tables of each of the base stations contain containing the same group identification information for customer stations belonging to the same customer station group; and

~~the wherein said first and second tables of the base stations being are~~ management information bases and, by utilizing a simple network management protocol system, the group identification information being is written to the management information bases by using information sent from a management unit connected via the virtual dedicated line network.

7. (Previously Presented) A subscriber wireless access system according to claim 3, wherein the group identification information assigned to the customer stations are included in wireless frames of the base stations and the customer stations.

8. (Previously Presented) A subscriber wireless access system according to claim 4, wherein the group identification information assigned to the customer stations are included in wireless frames of the base stations and the customer stations.

9. (Previously Presented) A subscriber wireless access system according to claim 5, wherein the group identification information assigned to the customer stations are included in wireless frames of the base stations and the customer stations.

10. (Previously Presented) A subscriber wireless access system according to claim 6, wherein the group identification information assigned to the customer stations are included in wireless frames of the base stations and the customer stations.

11. (Currently Amended) An exchange for connecting base stations to a virtual dedicated line network so as to enable customer stations which are wirelessly connected with different base stations to be interconnected via the virtual dedicated line network, ~~the said~~ exchange comprising:

a table for correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations;

means for, with reference to the table, sending data received from a customer station via a subordinate base station through the virtual dedicated line network to another base station; and

means for, with reference to the table, converting data received through the virtual dedicated line network to customer station identification information and sending the converted data to a subordinate base station;-

wherein each customer station is assigned station-specific identification information for identifying the individual customer station and group identification

information for identifying the individual customer station as a member of a customer station group, and each customer station group is assigned unique group identification information; and

wherein each base station has a first table for correlating the virtual dedicated line network connection information with the group identification information of each customer station group and a second table for correlating the station-specific identifier information and the group identification information of each customer station group, and said first and second tables of each the base stations contain the same group identification information for customer stations belonging to the same customer station group.

12. (Currently Amended) A base station ~~capable of~~ for connecting to a virtual dedicated line network ~~for enabling~~ so as to enable customer stations which are wirelessly connected with different base stations to be interconnected via the virtual dedicated line network,

wherein each customer station is assigned station-specific identification information for identifying the individual customer station and group identification information for identifying the individual customer station as a member of a customer station group, and each customer station group is assigned unique group identification information; and

~~the~~ wherein said base station comprising comprises:

a first table for correlating virtual dedicated line network connection information allocated for connecting the customer stations with the group identification information of each customer station group;

a second table for correlating the station-specific identifier information and the group identification information of each customer station group,

wherein said first and second tables of said base station contain the same group identification information for customer stations belonging to the same customer station group, and said first and second tables are thereby operable to correlate the station-specific identification information assigned to the customer stations with the virtual dedicated line network connection information ~~allocated for connecting the customer stations;~~

means for receiving data from a customer station via a subordinate base station and, with reference to ~~the said tables~~, sending the received data ~~received from a customer station via a subordinate base station~~ through the virtual dedicated line network to another base station; and

means for, with reference to ~~the said tables~~, receiving ~~converting data received~~ through the virtual dedicated line network, converting the received data to customer station identification information and sending the converted data to a subordinate base station.

13. (New) A subscriber wireless access system according to claim 3, wherein when different customer stations subordinate to the base stations are formed into closed customer station groups, communication terminal devices under each customer station group are virtually connected to each other.

14. (New) A subscriber wireless access system according to claim 4, wherein when different customer stations under to the base stations are formed into closed customer station groups, communication terminal devices under each customer station group are virtually connected to each other.

15. (New) A subscriber wireless access system according to claim 5, wherein when different customer stations under to the base stations are formed into closed customer station groups, communication terminal devices under each customer station group are virtually connected to each other.

16. (New) A subscriber wireless access system according to claim 6, wherein when different customer stations under to the base stations are formed into closed customer station groups, communication terminal devices under each customer station group are virtually connected to each other.

17. (New) An exchange according to claim 11, wherein when different customer stations under to the base stations are formed into closed customer station groups,

communication terminal devices under each customer station group are virtually connected to each other.

18. (New) A base station according to claim 12, wherein when different customer stations under to said base stations are formed into closed customer station groups, communication terminal devices under each customer station group are virtually connected to each other.